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Announcement

Workshop on Recursion Theoretic Aspects of Computer Science

We will host an NSF-sponsored workshop on the applications of recursion theory to computer science at Purdue University during May 18–22, 1981. The intent is to provide a forum for computer scientists who use techniques of recursion theory in their work and to promote interaction with recursion theorists whose work is more purely mathematical in orientation. There will be a sequence of invited and contributed talks. Tentative titles are given below.

Martin Davis	Why Gödel didn't have Church's thesis
Juris Hartmanis	Natural complete and creative sets
Albert Meyer	What is a model of the λ calculus?
Robert Soare	Computational complexity of r.e. sets
Donald Alton	The nonexistence of program optimizers in subrecursive programming languages
John Case	Recursion theorems and program size
Robert Daley	Exploring veins of computable functions through their computational complexity
Louise Hay	The complexity of relative succinctness
Dexter Kozen	On relative diagonals
Tim Long	Sparse oracles and NP complete sets
Greg Riccardi	A recursion theoretic approach to programming language semantics
Alan Selman	Analogues of semirecursive sets and effective reducibilities to the study of NP complexity
Ann Yasuhara	Computability on term algebras

Participants will be housed together in university surroundings, and the conference schedule will allow ample time for informal interaction. Approximately forty to fifty participants are anticipated at this working conference.

Papers which present original results in the area may be submitted to a special issue of *Information and Control* which will be devoted to recursion theoretic aspects of Computer Science. Martin Davis, Carl Smith, and Paul Young will serve as editors, and all papers submitted for the special issue will go through the normal refereeing process.

To place your name on the mailing list to receive registration materials send your name and address to: Carl Smith and Paul Young, Department of Computer Sciences, Purdue University, West Lafayette, IN 47907.

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